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76
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FERTILIZER USE AND CROP YIELDS

A List of References

Compiled by John M. McNeill

This bibliography lists publications containing original experimental data on the effects of fertilizer use on crop yields. It is limited to the United States and territories, and covers the period 1925-45, with a few items published in 1946. References are mainly to publications of the State agricultural experiment stations and of agricultural research agencies of the Federal Government and to periodical and other articles reporting research conducted by these agencies. No attempt has been made, however, to cover the general periodical literature on the subject. Annual, biennial, and other reports of the State experiment stations and of Federal research agencies, although not listed in this bibliography, are sources of information on research in progress.

Items marked with an asterisk (*) have not been examined. Call numbers following the citations are those of the U. S. Department of Agriculture Library.

It will be appreciated if users of this bibliography will call to the attention of the compiler any pertinent references which may have been omitted.

1. BROWN, B. E., and CUMINGS, G. A. Fertilizer placement studies with the potato...in 1932 [1933, and 1934]. Amer. Potato Jour. 11: 141-147, 265-273; 12: 178-182. June, July 1934, July 1935. 75.8 P842
   Effects of placement methods on yields.
2. BROWN, B. E., and others. Field comparisons of Colloidal Phosphate and superphosphate as sources of phosphorus in potato fertilizers. Amer. Potato Jour. 21: 241-249. Sept. 1944. 75.8 P842
   J. A. Chucka, Arthur Hawkins, and J. C. Campbell, joint authors.

3. BROWN, B. E., and others. Further studies on the placement of fertilizer for potatoes. Amer. Potato Jour. 16: 81-93. Apr. 1939. 75.8 P842
   H. H. Zimmerley, G. V. C. Houghland, W. H. Redit, and L. G. Schoenleber, joint authors.
   Relation of placement methods to yields.
4. BROWN, B. E., HOUGHLAND, G. V. C., and REID, F. R. Sources of nitrogen for potato fertilizers compared on prominent soil types in New York, Pennsylvania, and Virginia. 19 p., processed. Washington, D. C., U. S. Bureau of Chemistry and Soils, 1934. 1.9 C4935So
5. BROWN, B. E. Use of ammonium nitrate in potato fertilizers. Amer. Potato Jour. 21: 1-5. Jan. 1944. 75.8 P842
6. CAMPBELL, J. C., and others. Fertilizer placement for potatoes: a comparison of level-band and Hi-Lo methods. Amer. Potato Jour. 22: 297-311. Oct. 1945. 75.8 P842
   A. Hawkins, B. E. Brown, and J. A. Chucka, joint authors.
   Effects of placement on yields.
7. CUMINGS, G. A., and HOUGHLAND, G. V. C. Fertilizer placement for potatoes U. S. Dept. Agr. Tech. Bul. 669, 48 p. Washington, D. C., 1939. 1 Ag84Te
   Results of experiments conducted in various States and on different soil types, including effects of placement on yields.
8. FIPPIN, E. O. Advantages of the use of the law of diminishing returns in the layout of fertilizer test plots. Soil Sci. Soc. Amer. Proc. (1936) 1: 277-289. 56.9 So3
9. FIPPIN, E. O. The objectives and methods of field plot fertilizer tests and a proposed improvement of methods. Soil Sci. Soc. Amer. Proc. (1940) 5: 274-280. 56.9 So3
10. FOWLER, E. D., SKINNER, J. J., and RUPRECHT, R. W. Results of ten years' fertilizer experiments with pecans on Blanton fine sand and Bladen fine sandy loam. 11 p., processed. Washington, D. C., U. S. Bureau of Chemistry and Soils, 1933? 1.9 C4935Re
11. *GREAVES, J. E., and PITTMAN, D. W. Influence of fertilizers on the yield and composition of certain crops and on the soil. Soil Sci. 61: 239-246. Mar. 1946. 56.8 So3
12. KELLEY, W. P. A review of researches on nitrogen fertilization in relation to economic crop production, with special reference to future investigations. Amer. Soc. Agron. Jour. 25: 51-64. Jan. 1933. 4 Am34P
13. MOSS, E. G., and others. Fertilizer tests with flue-cured tobacco. U. S. Dept. Agr. Tech. Bul. 12, 59 p. Washington, D. C., 1927. 1 Ag84Te
    J. E. McMurtrey, Jr., W. M. Lunn, and J. M. Carr, joint authors.
    Results of experiments conducted in Virginia, North Carolina, South Carolina, and Georgia, on various Piedmont and coastal plain soils.
14. MUSGRAVE, G. W., and COE, D. G. Influence of fertilizer treatments on maturity and yield of cotton. Amer. Soc. Agron. Jour. 19: 910-923. Oct. 1927. 4 Am34P
    Summary of results from experimental fields in North Carolina and Oklahoma.

15. NATIONAL FERTILIZER ASSOCIATION. SOIL IMPROVEMENT COMMITTEE. Pasture top-dressing with fertilizer and lime in the hay and pasture belt; a progress report, 1st-2nd., 1929-1930. Washington, D. C., 1930-1931. 57.7 N216

    Summary of results from 103 tests in 15 northeastern States and Ontario.

16. NATIONAL JOINT COMMITTEE ON FERTILIZER APPLICATION. Proceedings, processed. Annual. Washington, D. C., National Fertilizer Association. 57.9 N216

    The U. S. Dept. of Agriculture Library has: 1932-1943.

    Proceedings consist of papers on fertilizer placement, many of which give crop yield data.

17. RICHARDSON, E. C. The effect of fertilizer on stand and yield of kudzu on depleted soils. Amer. Soc. Agron. Jour. 37: 763-770. Sept. 1945. 4 Am34P

18. ROBINSON, R. R. The response of various forage grass and legume seedlings to phosphate fertilization under greenhouse conditions. Soil Sci. Soc. Amer. Proc. (1944) 9: 147-150. 56.9 So3

    Yields shown in grams per pot.

19. SKINNER, J. J., and others. Adapting high analysis and concentrated fertilizers to cotton soils. Soil Sci. 44: 1-22. July 1937. 56.8 So3

    H. B. Mann, E. R. Collins, E. T. Batten, and R. P. Bledsoe, joint authors.

    Results of experiments for comparing effectiveness of concentrated and standard-strength fertilizers, in Virginia, North Carolina, South Carolina, and Georgia, during the period 1925-1936. Data reported include effects on cotton yields, and compare a standard with concentrated materials, different placement methods, effects of supplementing concentrated with standard materials, and of supplementing with minor elements and limestone.

20. SKINNER, J. J., and others. Experiments with nitrogen fertilizers on cotton soils. U. S. Dept. Agr. Tech. Bul. 452, 28 p. Washington, D. C., 1934. 1 Ag84Te

    R. A. Lineberry, J. E. Adams, C. B. Williams, and H. B. Mann, joint authors.

    Review of results obtained from experiments in North Carolina, South Carolina, and Georgia, on various soil types.

21. SKINNER, J. J. Fertilizer for pecan soils. U. S. Dept. Agr. Leaflet 71, 8 p. Washington, D. C., 1930. 1 Ag84L

22. SPILLMAN, W. J. Use of the exponential yield curve in fertilizer experiments. U. S. Dept. Agr. Tech. Bul. 348, 67 p. Washington, D. C. 1933. 1 Ag84Te

23. U. S. TENNESSEE VALLEY COORDINATING COMMITTEE. Results of cooperative tests of Tennessee-Valley-Authority plant-food materials by the Valley States land grant colleges. 204 p., processed. Washington, D. C.? U. S. Dept. of Agriculture? 1940-1941. 1.947 R31

    In two parts: Pt. 1, Agricultural experiment station results; Pt. 2, Extension Service test-demonstration results.

24. VOLK, G. W. The use of phosphorus for crop production in the United States. Soil Sci. Soc. Amer. Proc. (1943) 8: 37-45. 56.9 So3
25. WILLCOX, O. W. Absolute values in fertilizer experiments. Amer. Soc. Agron. Jour. 36: 480-486. June 1944. 4 Am34P
26. WILLCOX, O. W. Yield-depression effect of fertilizers and its measurement by the universal yield diagram. Amer. Soc. Agron. Jour. 36: 20-31. Jan. 1944. 4 Am34P
27. WILLCOX, O. W. Yield-depression effect of fertilizers and its measurement. -II. Report on nutritional unbalance disclosed by field tests. Amer. Soc. Agron. Jour. 37: 9-20. Jan. 1945. 4 Am34P
28. WILLCOX, O. W. Yield-depression effect of fertilizers and its measurement -III. Agrobiological analysis of certain multiple-factor field tests showing depression by nitrogen. Amer. Soc. Agron. Jour. 37: 622-634. Aug. 1945. 4 Am34P

ALABAMA

29. BAILEY, R. Y., WILLIAMSON, J. T., and DUGGAR, J. F. Experiments with legumes in Alabama. Ala. Agr. Expt. Sta. Bul. 232, 45 P. Auburn, 1930. 100 AL1S
    Data presented include the effects of fertilizer treatments on yields of winter legumes grown in rotation.
30. MCCLENDON, J. W., and MAYTON, E. L. The effect of lime and fertilizer on the composition and yield of pasture herbage in Alabama. Soil Sci. Soc. Amer. Proc. (1941) 6: 285-287. 56.9 So3
    Experimental results from the Alabama Agricultural Experiment Station.
31. MAYTON, E. L. Permanent pasture studies on upland soils. Ala. Agr. Expt. Sta. Bul. 243, 26 p. Auburn, 1935. 100 AL1S
    Effects of various fertilizer and lime treatments on yields of green and dry matter are included. The soil involved in the study was Norfolk sandy loam, and the period covered, 1926-1932.
32. NAFTEL, J. A. The value of lime in a two-year rotation on Sand Mountain, a progress report. Ala. Agr. Expt. Sta. Cir. 75, 11 p. Auburn, 1936. 100 AL1S
    Fertilization-yield data for cotton and corn, in rotation with vetch and soybeans.
33. RICHARDSON, E. C. The effect of fertilizer on stand and yield of kudzu on depleted soils. Amer. Soc. Agron. Jour. 37: 763-770. Sept. 1945. 4 Am34P
    Results of a cooperative study by the U. S. Soil Conservation Service and the Alabama Agricultural Experiment Station, on a soil conservation demonstration project near Dadeville, Ala.
34. SCARSETH, G. D., and STURKIE, D. G. Fertilizer and crop experiments on certain soils of the Black Belt. Ala. Agr. Expt. Sta. Cir. 78, 24 p. Auburn, 1937. 100 AL1S
35. SOMMER, A. L., WEAR, J. I., and BAXTER, A. The response to magnesium of six different crops on sixteen Alabama soils. Soil Sci. Soc. Amer. Proc. (1940) 5: 205-212. 56.9 So3
    Experimental results from the Alabama Agricultural Experiment Station.

36. STURKIE, D. G. Experiments with hay crops in Alabama. Ala. Agr. Expt. Sta. Cir. 79, 20 p. Auburn, 1937. 100 AL1S

37. TIDMORE, J. W., and WILLIAMSON, J. T. Experiments with commercial nitrogenous fertilizers. Ala. Agr. Expt. Sta. Bul. 238, 60 p. Auburn, 1932. 100 AL1S

    Comparative effects of different nitrogenous fertilizers on yields of cotton on various soil types in Alabama. Some data are also included for yields of oats and hay crops, and for the effects of lime.

38. TIDMORE, J. W. Grades of fertilizers for corn and cotton, a progress report. Ala. Agr. Expt. Sta. Cir. 70, 12 p. Auburn, 1935. 100 AL1S

39. WARE, L. M., and JOHNSON, W. A. Effects of fertilizers, animal manures, and green manures on the yield of vegetable crops from light garden soils. Amer. Soc. Hort. Sci. Proc. (1945) 46: 319-322. 81 Sol2

    Results of investigations at the Alabama Agricultural Experiment Station.

40. WARE, L. M. The effects of fertilizers, organic material, and irrigation on the yield of certain truck crops. Amer. Soc. Hort. Sci. Proc. (1941) 39: 363-366. 81 Sol2

    Experimental results from the Alabama Agricultural Experiment Station.

41. WARE, L. M. Fertilizer experiments with truck crops in Alabama. 8 p., processed. Auburn, Alabama Agricultural Experiment Station, 193-? 57.7 AL13F

42. WARE, L. M. Fertilizer requirements of the potato on different soils of Alabama. Amer. Potato Jour. 16: 259-266. Oct. 1939. 75.8 P842

43. WARE, L. M., and KIMBROUGH, W. D. Influence of different fertilizer treatments on certain characteristics of the Irish potato. Amer. Soc. Hort. Sci. Proc. (1933) 30: 485-490. 81 Sol2

    Results of experiments at the Alabama Agricultural Experiment Station.

44. WARE, L. M. Influence of the major fertilizer elements on the earliness and yield of snap beans. Amer. Soc. Hort. Sci. Proc. (1937) 34: 699-703. 81 Sol2

    Results of experiments at the Alabama Agricultural Experiment Station.

45. WARE, L. M. The interrelation of size of seed piece and rate of application of fertilizer in the production of potatoes in Alabama. Amer. Potato Jour. 14: 375-382. Dec. 1937. 75.8 P842

46. WARE, L. M. Interrelation of spacing of seed piece and rate of application of fertilizer in the production of potatoes in Alabama. Amer. Potato Jour. 14: 355-362. Nov. 1937. 75.8 P842

47. WARE, L. M., and JOHNSON, W. A. Nitrogen requirements on different groups of vegetables. Amer. Soc. Hort. Sci. Proc. (1944) 44: 343-345. 81 Sol2

    Results of experiments conducted at the Alabama Agricultural Experiment Station, showing yields resulting from use of varying amounts of nitrogen, on Norfolk, Decatur, and Hartsells soils.

48. WARE, L. M., BROWN, O., and YATES, H. Residual effects of phosphorus on Irish potatoes in south Alabama. Amer. Soc. Hort. Sci. Proc. (1942) 41: 265-269. 81 Sol2

    Results of investigations at the Alabama Agricultural Experiment Station. The soil was a Norfolk sandy loam.

49. WILLIAMSON, J. T. Efficiency of ammoniated superphosphates for cotton. Amer. Soc. Agron. Jour. 27: 724-728. Sept. 1935. 4 Am34P
Results of experiments carried on by the Alabama Agricultural Experiment Station, including effects on cotton yields on various Alabama soils.

50. WILLIAMSON, J. T., APPLETON, W. H., and HELMS, H. B. Fertilizer experiments with corn. Ala. Agr. Expt. Sta. Cir. 52, 12 p. Auburn, 1927. 100 AL1S
Results of continued experiments on various soil areas in Alabama.

51. WILLIAMSON, J. T. Fertilizer experiments with cotton. Ala. Agr. Expt. Sta. Bul. 228, 31 p. Auburn, 1929. 100 AL1S
Results of experiments on the rate and ratio of fertilizers for cotton on various soils of Alabama, during the years 1923-1927.

ARIZONA

52. FINCH, A. H., and MCGEORGE, W. T. Studies of grapefruit fertilization in Arizona. Amer. Soc. Hort. Sci. Proc. (1939) 36: 62-67. 81 So12
Results of experiments at the Arizona Agricultural Experiment Station.

53. FRAZIER, W. A., and MCGEORGE, W. T. Preliminary results of fertilizer placement for lettuce in raised irrigated beds. Amer. Soc. Hort. Sci. Proc. (1939) 36: 702-706. 81 So12
Experimental results obtained at the Arizona Agricultural Experiment Station.

54. GRIFFITHS, A. E. Studies of the response of lettuce to manure and commercial fertilizers. Amer. Soc. Hort. Sci. Proc. (1941) 39: 351-356. 81 So12
Experimental results from the University of Arizona.

55. KINNISON, A. F., and ALBERT, D. W. A progress report of fertilizer studies with grapefruit in the Salt River Valley, Arizona. Amer. Soc. Hort. Sci. Proc. (1935) 32: 90-91. 81 So12
Report of an experiment at the Arizona Agricultural Experiment Station.

56. MCGEORGE, W. T., and BREAZEALE, J. F. Fertilization of alfalfa on alkaline calcareous soils. Ariz. Agr. Expt. Sta. Bul. 154, 26 p. Tucson, 1936. 100 Ar4
Report of an experiment using various amounts of ammonium phosphate, applied by drill and in solution in irrigation water.

57. MCGEORGE, W. T., WHARTON, M. F., and FRAZIER, W. A. Fertilization of lettuce on alkaline-calcareous soils: soil and plant studies. Ariz. Agr. Expt. Sta. Tech. Bul. 85, p. 399-451. Tucson, 1940. 100 Ar4
Data reported include yield responses to different fertilizer materials.

58. SERVISS, G. H., and HAWKINS, R. S. Cotton fertilizer experiments in the Salt River Valley. Ariz. Agr. Expt. Sta. Bul. 129, p. 313-337. Tucson, 1929. 100 Ar4
Results reported include effects of different amounts and kinds of fertilizer materials, including barnyard manure, on cotton yeilds.

ARKANSAS

59. BARTHOLOMEW, R. P. Comparison of mixed fertilizers produced from various nitrogen and phosphoric acid sources. Ark. Agr. Expt. Sta. Bul. 450, 31 p. Fayetteville, 1944. 100 Ar42
Results of fertilizer experiments with cotton on Richland silt loam soil, showing relative efficiencies of various fertilizer mixtures when used with, and without, limestone and other basic materials.
60. COOPER, J. R. Effect of commercial fertilizers on performance of peach trees. Ark. Agr. Expt. Sta. Bul. 429, 46 p. Fayetteville, 1943. 100 Ar42
Results of experiments with Elberta peach trees growing in Ruston sandy loam soil, including effects of fertilizer treatments and use of lime on yields of fruit.
61. COOPER, J. R., and VAILE, J. E. Effect of fertilizers, soil reaction and texture, and plant stand on the performance of strawberries. Ark. Agr. Expt. Sta. Bul. 454, 55 p. Fayetteville, 1945. 100 Ar42
Effects of fertilizers and manure on production, p. 5-19.
62. COOPER, J. R., and RAPP, C. W. Fertilizers for Irish potatoes. Ark. Agr. Expt. Sta. Bul. 206, 15 p. Fayetteville, 1926. 100 Ar42
Data include effects of fertilizer amounts, analyses, and methods of application, on yields.
63. COOPER, J. R., and WATTS, V. M. Fertilizers for Irish potatoes, sweet potatoes, tomatoes, muskmelons, and watermelons. Ark. Agr. Expt. Sta. Bul. 333, 32 p. Fayetteville, 1936. 100 Ar42
Results of fertilizer-yield experiments over a period of years, made on Clarksville silt loam and Ruston sandy loam in Arkansas.
64. COOPER, J. R., and WIGGANS, C. B. A preliminary report on experiments with fertilizers for peach trees. Ark. Agr. Expt. Sta. Bul. 202, 40 p. Fayetteville, 1926. 100 Ar42
Results reported include effects of treatments with fertilizers of various analyses on peach yields.
65. COOPER, J. R., and VAILE, J. E. Response of American grapes to various treatments and vineyard practices. Ark. Agr. Expt. Sta. Bul. 378, 74 p. Fayetteville, 1939. 100 Ar42
66. COOPER, J. R. A study of the effect of commercial fertilizers on the performance of apple trees. Ark. Agr. Expt. Sta. Bul. 227, 61 p. Fayetteville, 1928. 100 Ar42
The soil was a Clarksville silt loam.
67. COOPER, J. R., and WIGGANS, C. B. A study of the effect of commercial fertilizers on the performance of peach trees. Ark. Agr. Expt. Sta. Bul. 239, 62 p. Fayetteville, 1929. 100 Ar42
Effects of fertilizers on production of fruit, p. 15-19; Economic value of fertilizers, p. 45-51. The soil studied was Greenville sandy loam. Various fertilizer ratios were used.
68. KAPP, L. C. Preliminary report on the effect of certain chemicals on rice production and their effect on the rice soil. Ark. Agr. Expt. Sta. Bul. 277, 35 p. Fayetteville, 1932. 100 Ar42
Effects of various fertilizer treatments and materials on yields are included in the results reported. Crowley and Clarksville silt loams were the soils studied in the experiments.

69. KAPP, L. C. Study of rice fertilization. Ark. Agr. Expt. Sta. Bul. 291, 37 p. Fayetteville, 1933. 100 Ar42
Results of greenhouse and field studies with rice grown on Crowley and Clarksville silt loam soils, showing effects of different fertilizer treatments on yields.
70. NELSON, M. Cooperative fertilizer experiments with cotton. Ark. Agr. Expt. Sta. Bul. 255, 44 p. Fayetteville, 1930. 100 Ar42
Review of results of experiments in the principal cotton-producing areas of Arkansas. Yields of seed cotton per acre with, and without, various fertilizer treatments, and dollar values of increases resulting from fertilizer use, are shown and discussed.
71. NELSON, M. Fertilizer experiments with cotton in type-of-farming areas. Ark. Agr. Expt. Sta. Bul. 346, 31 p. Fayetteville, 1937. 100 Ar42
72. NELSON, M. Preliminary report on cultural and fertilizer experiments with rice in Arkansas. Ark. Agr. Expt. Sta. Bul. 264, 46 p. Fayetteville, 1931. 100 Ar42
Includes effects of fertilizer treatments on yields, using different fertilizer materials and analyses.
73. NELSON, M., and WARE, J. O. The relation of nitrogen, phosphorus, and potassium to the fruiting of cotton. Ark. Agr. Expt. Sta. Bul. 273, 75 p. Fayetteville, 1932. 100 Ar42
From experiments on Pulaski fine sandy loam during 1927-1931.
74. NELSON, M., and SACHS, W. H. Results of fertilizer experiments with cotton, 1924. Ark. Agr. Expt. Sta. Bul. 195, 11 p. Fayetteville, 1925. 100 Ar42
75. NELSON, M. Rice fertilization. Ark. Agr. Expt. Sta. Bul. 430, 23 p. Fayetteville, 1943. 100 Ar42
Study of effects of fertilizer materials, time of application, and indirect fertilization on rice yields. Lime was used in some fertilizer mixtures. Data on indirect fertilization show also effects of fertilizer treatments on yields of corn, cotton, and soybeans.
76. NELSON, M. Soil fertility studies. Ark. Agr. Expt. Sta. Bul. 290, 36 p. Fayetteville, 1933. 100 Ar42
Results of a 12-year (1921-1932) study in Arkansas of crop rotation and use of manures, soil amendments, and fertilizers, with comparison of crop yields. The crops studied were corn, oats, wheat, and clover, and the soil a Clarksville silt loam.

CALIFORNIA

77. CONRAD, J. P. Fertilizer and legume experiments following sorghums. Amer. Soc. Agron. Jour. 20: 1211-1234. Nov. 1928. 4 Am34P
Results from the California Experiment Station, showing effects of fertilizer applications on yields of barley and Escondido wheat following certain sorghum crops.
78. DAVIS, L. L., and JONES, J. W. Fertilizer experiments with rice in California. U. S. Dept. Agr. Tech. Bul. 718, 22 p. Washington, D. C., 1940. 1 Ag84Te
79. HANNA, G. C. Fertilizer trials with asparagus on peat sediment soil. Amer. Soc. Hort. Sci. Proc. (1938) 35: 560-561. 81 So12
Report of experiments at the University of California.

80. JONES, J. W. Effect of fertilizers on the yield of rice grown in pots. Amer. Soc. Agron. Jour. 25: 548-554. Aug. 1933. 4 Am34P
Report of investigations at the Biggs Rice Field Station, California.

81. LORENZ, O. A. Studies on potato nutrition: I. The effects of fertilizer treatment on the yield and composition of Kern County potatoes. Amer. Potato Jour. 21: 179-192. July 1944. 75.8 P842
Results of studies made in Kern County, Calif., on Hesperia and Delano sandy loam soils.

82. PARKER, E. R., and BATCHELOR, L. D. Effect of fertilizers on orange yields. Calif. Agr. Expt. Sta. Bul. 673, 39 p. Berkeley, 1942. 100 C12S

83. PENDLETON, R. A., and ROBBINS, W. W. Fertilizers for sugar beets on some California soils. Calif. Agr. Expt. Sta. Bul. 694, 26 p. Berkeley, 1945. 100 C12S

84. PROEBSTING, E. L. Fertilizing deciduous fruit trees in California. Calif. Agr. Expt. Sta. Bul. 610, 29 p. Berkeley, 1937. 100 C12S
Report of fertilizer trails with peaches, prunes, pears, apricots, and almonds.

85. PROEBSTING, E. L., and KINMAN, C. F. Orchard trials of nitrogen and phosphorus. Amer. Soc. Hort. Sci. Proc. (1933) 30: 426-430. 81 Sol2
Yield tests with apricots, peaches, and prunes, in California. The soil was a Yolo gravelly loam.

86. WESTOVER, H. L., and NOBLE, E. G. Fertilizer experiments with alfalfa conducted at the United States Yuma Field Station, Bard, Calif., 1919 to 1925. U. S. Dept. Agr. Bul. 1418, 11 p. Washington, D. C., 1926. 1 Ag84B

COLORADO

87. BRYANT, L. R., GARDNER, R., and GOODWIN, J. B. Fertilizer trials with sour cherries under limited irrigation. I. Yields and fruit size. Amer. Soc. Hort. Sci. Proc. (1937) 34: 347-351. 81 Sol2
Experimental results obtained at Colorado State College, with various fertilizer treatments, on a Terry fine sandy loam soil.

88. HURST, L. A., and SKUDERNA, A. W. Fertilizer studies with sugar beets in the Arkansas Valley area, Colo., 1921-28. U. S. Dept. Agr. Cir. 319, 20 p. Washington, D. C., 1934. 1 Ag84C

89. MCLEAN, J. G., SPARKS, W. C., and BINKLEY, A. M. The effect of certain minor elements on yield, size, and skin thickness of potato tubers. Amer. Soc. Hort. Sci. Proc. (1944) 44: 362-368. 81 Sol2
Results of investigations at Colorado State College.

90. METZER, C. H. A preliminary report on the effects of commercial fertilizers on potatoes in Colorado. Amer. Potato Jour. 14: 382-394. Dec. 1937. 75.8 P842

CONNECTICUT

91. BROWN, B. A. Fertilizers for potatoes (second and third reports). Conn. Agr. Expt. Sta. (Storrs). Bul. 203, 18 p.; 223, 16 p. Storrs, 1935, 1938. 100 C76S
Results of experiments, including use of magnesia and lime.
First report issued in 1920 as Bul. 106.

92. BROWN, B. A., and MUNSELL, R. I. Fractional liming for alfalfa. Soil Sci. Soc. Amer. Proc. (1942) 7: 279-282. 56.9 So3

Results of experiments at the Storrs, Conn., Experiment Station, showing effects of lime applications on yields. The soil was a Charlton fine sandy loam.

93. BROWN, B. A., and SLATE, W. L. The maintenance and improvement of permanent pastures (first report). I. A discussion of the factors involved. II. The effects of fertilizers on the soil reaction, the flora, and the production as measured by grazing (1921-1928). Conn. Agr. Expt. Sta. (Storrs). Bul. 155, p. 151-250. Storrs, 1929. 100 C76

94. BROWN, B. A. Pasture investigations (fourth report). Effect of fertilizers on the total and seasonal production. Conn. Agr. Expt. Sta. (Storrs). Bul. 189, 33 p. Storrs, 1933. 100 C76S

Experimental results on fertilizer-yield relationships, covering the years 1921-1931. Yields are expressed in terms of gains in weight of cattle pastured on the experimental plots.

95. BROWN, B. A., and MUNSELL, R. I. Pasture investigations (tenth report). I. Soil penetration of surface applied limestone and superphosphate. II. Botanical and chemical composition of the vegetation. III. Seasonal yields as measured by grazing. Conn. Agr. Expt. Sta. (Storrs). Bul. 245, 54 p. Storrs, 1943. 100 C76S

Data reported include effects of different fertilizer treatments on yields, with yields reported in terms of gains in weight of cattle pastured on the experimental plots.

96. BROWN, B. A. Soil fertility experiments with potatoes. Amer. Potato Jour. 21: 163-169. June 1944. 75.8 P842

Results of experiments at the Storrs Experiment Station. The soil was Merrimac fine sandy loam.

97. MORGAN, M. F., and JACOBSON, H. G. M. Soil management for intensive vegetable production on sandy Connecticut valley land. Conn. Agr. Expt. Sta. (New Haven). Bul. 439, p. 555-592. New Haven, 1940. 100 C76St

Results of a 10-year study, including yield effects of fertilizer treatments and of use of lime and magnesia.

DELAWARE

98. LAGASSÉ, F. S. Some responses of yellow transparent apple trees in Delaware to various nitrogen treatments. Del. Agr. Expt. Sta. Bul. 195, 42 p. Newark, 1935. 100 D37S

99. MCCUE, C. A. Relative effect upon peach production of nitrogen derived from certain fertilizer sources. Del. Agr. Expt. Sta. Bul. 222, 8 p. Newark, 1940. 100 D37S

Results from experiments covering the years 1923-1932.

100. SCHUSTER, G. L. Corn production experiments in Delaware. Del. Agr. Expt. Sta. Bul. 146, 27 p. Newark, 1926. 100 D37S

Includes fertilizer and liming experiments. The soil was Sassafras silt loam, and the period covered, 1908-1923.

101. SCHUSTER, G. L. Economic returns from fifteen years-results with manure, fertilizers, and lime on Sassafras silt loam soil. Del. Agr. Expt. Sta. Bul. 138, 47 p. Newark, 1924. 100 D37S
Further discussion, and findings of experiments reported in Bul. 137 (Item 103).

102. SCHUSTER, G. L., and PHILLIPS, C. E. Fertility experiments on Sassafras silt loam. Del. Agr. Expt. Sta. Bul. 209, 34 p. Newark, 1938. 100 D37S
Report of experimental findings, 1925-1935, with corn, wheat, soybeans, and hay.

103. SCHUSTER, G. L. Fifteen years of field experiments with manure, fertilizers and lime on Sassafras silt loam soil. Del. Agr. Expt. Sta. Bul. 137, 45 p. Newark, 1924. 100 D37S
Experiments with corn, oats, wheat, soybeans, and mixed hay, covering the years 1908-1923.

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Data reported include effects of fertilizer treatments on yields of herbage.

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The experiments were made on Bladen, Coxville, Norfolk, and Orangeburg soil series.

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Effects of fertilizer treatments on yields are also reported. Experiments were made on various soil types. Fertilizers employed included, in addition to the primary materials, lime and six trace elements.

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A. L. Sharp, J. J. Skinner, G. M. Bahrt, and G. H. Serviss, joint authors.

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Effects of different fertilizer materials, amounts, and analyses on yields.

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113. NELLER, J. R. Availability of the phosphorus of various types of phosphates added to Everglades peat land. Fla. Agr. Expt. Sta. Bul. 408, 28 p. Gainesville, 1945. 100 F66S

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117. RITCHEY, G. E. The results of five years' fertilizer tests on pasture grass plots at Gainesville, Florida. Assoc. South. Agr. Workers. Proc. (1933/1935) 34/36: 451-452. 4 C82

118. SKINNER, J. J., and RUPRECHT, R. W. Fertilizer experiments with truck crops. I. Celery and lettuce on Leon fine sand. II. Tomatoes on calcareous Glade soil. III. Truck crops with manganese on calcareous Glade soil. Fla. Agr. Expt. Sta. Bul. 218, 65 p. Gainesville, 1930. 100 F66S

Data reported include yield relationships of different kinds, compositions, and amounts of fertilizers.

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Results of experiments made in Florida on Portsmouth loamy fine sand and Blanton fine sand soils.

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120. BLEDSOE, R. P. Cotton fertilizers and cultural methods. Ga. Agr. Expt. Sta. Bul. 152, 37 p. Experiment, 1929. 100 G29S
Summary of experiments made during 1921-1928 on Cecil sandy clay loam soil, showing yields from various sources and amounts of nitrogen, from phosphates, from different amounts of potash, and from concentrated fertilizers. With some treatments, limestone and ferrous sulfate were also used.

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Results from eight years (1928-1935) of experimentation with fertilizer ratios on five typical cotton soils.

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Summary of experiments, 1922 to 1928, inclusive.

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Revision of Bulletin No. 7, published in 1927.
Data reported include effects of fertilizer formulas, sources, and quantities on yields. The soils studied were Tifton sandy loam, Norkolk sandy loam, and a Plummer soil.

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Results of experiments made on Cecil sandy clay loam and Madison sandy loam, showing effects of varying fertilizer ratios, of topdressing with nitrogen, of different sources of nitrogen and potash, and of magnesium on yields.

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Results of experimental work in Georgia.

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Results of experiments on various soil types.

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Results of investigations with sugarcane.

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Studies with sugarcane.

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Effects of various fertilizer elements and combinations on growth and yields.

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Bulletin 425 had as joint authors A. L. Lang, C. J. Badger, L. B. Miller, C. H. Farnham, and P. E. Johnson.

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H. L. Cook, B. A. Krantz, and A. J. Ohlrogge, joint authors.
Effects of various fertilizer amounts, combinations, and application methods on yields on various soil types.

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G. P. Walker, S. R. Miles, William Bannwart, and Harry Brunner, joint aughors.

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Results of investigations at the Iowa Agricultural Experiment Station.

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Results of investigations at the Iowa Agricultural Experiment Station.

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309. PRINCE, F. S., and others. Fertilizer experiments on "run-out" hay land. N. H. Agr. Expt. Sta. Bul. 271, 17 p. Durham, 1933. 100 N45

P. T. Blood, T. G. Phillips, and G. P. Percival, joint authors.

Study of effects of fertilizer materials and combinations on yields of alfalfa and timothy.

310. PRINCE, F. S., and others. Fertilizer experiments with hay crops in the Connecticut valley. N. H. Agr. Expt. Sta. Cir. 50, 15 p. Durham, 1936. 100 N45

T. G. Phillips, P. T. Blood, and G. P. Percival, joint authors.

311. PRINCE, F. S., and others. Fertilizer experiments with sweet clover. N. H. Agr. Expt. Sta. Cir. 47, 12 p. Durham, 1935. 100 N45

P. T. Blood, T. G. Phillips, and G. P. Percival, joint authors.

312. PRINCE, F. S., and others. Fertilizer needs of alfalfa on New Hampshire soils. N. H. Agr. Expt. Sta. Cir. 58, 12 p. Durham, 1942. 100 N45

P. T. Blood, G. P. Percival, and P. N. Scripture, joint authors.

Contains figures on yields resulting from use of fertilizers and lime.

313. PRINCE, F. S., and BLOOD, P. T. Fertilizers for sweet corn. N. H. Agr. Expt. Sta. Cir. 63, 8 p. Durham, 1943. 100 N45

Shows yield results from fertilizer treatments, on Paxton loam soil.

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Effects of using lime on yields of various crops.

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Shows effects of fertilizer use on yields of herbage.

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P. T. Blood, T. G. Phillips, and G. P. Percival, joint authors.

Shows yields of herbage resulting from fertilizer use.

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317. BECKWITH, C. S., and DOEHLERT, C. A. Fertilizer and tillage for blueberries. N. J. Agr. Expt. Sta. Bul. 558, 8 p. New Brunswick, 1933. 100 N46S

318. BLAIR, A. W., and PRINCE, A. L. Comparative values of green manures and nitrate of soda as measured by the growth of small grains. N. J. Agr. Expt. Sta. Bul. 677, 8 p. New Brunswick, 1940. 100 N46S

Effects on yields of wheat and rye, grown on Sassafras loam soil.

319. BLAIR, A. W., and PRINCE, A. L. The influence of lime in vegetable growing. N. J. Agr. Expt. Sta. Bul. 498, 16 p. New Brunswick, 1930. 100 N46S

Effects of different rates of use of calcium and magnesian limestone on yields of various vegetables. The soil was a Sassafras loam.

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Report of work at the New Jersey Agricultural Experiment Station, showing effects of time of application on yields.

321. HESTER, J. B. The efficient use of nitrogen in tomato culture. Amer. Soc. Hort. Sci. Proc. (1941) 39: 308-312. 81 So12

Results of experiments made on Collington and Sassafras sandy soils in New Jersey.

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Effects of fertilizer treatments on yield and mineral composition, on eleven soil types.

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324. HESTER, J. B., and SHELTON, F. A. The soil side of tomato growing. Campbell Soup Co. Dept. Agr. Res. Bul. 1, 61 p. Riverton, N. J., 1939. 81 C15

325. MARTIN, W. H., BROWN, B. E., and CUMINGS, G. A. Fertilizer placement studies on Sassafras loam with the potato in New Jersey. Amer. Potato Jour. 10: 191-199. Oct. 1933. 75.8 P842

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Includes effects of lime and fertilizer treatments on yields of herbage. The soil was a Woodstown gravelly loam.

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333. FITE, A. B. Onion fertilizer experiments. N. Mex. Agr. Expt. Sta. Bul. 233, 22 p. State College, 1935. 100 N465
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334. HINKLE, D. A. Efficiency of various phosphate fertilizers on calcareous soil for alfalfa and sweet clover. Amer. Soc. Agron. Jour. 34: 913-918. Oct. 1942. 4 Am34P
Results of studies at the New Mexico Agricultural Experiment Station.

335. HINKLE, D. A., and STATEN, G. Fertilizer experiments with Acala cotton on irrigated soils. N. Mex. Agr. Expt. Sta. Bul. 280, 15 p. State College, 1941. 100 N465

336. HINKLE, D. A. Use of phosphatic fertilizers on alfalfa. N. Mex. Agr. Expt. Sta. Bul. 289, 19 p. State College, 1942. 100 N465

337. STATEN, G., and HINKLE, D. A. Fertilizer experiments with cotton on heavy irrigated soils. N. Mex. Agr. Expt. Sta. Bul. 248, 16 p. State College, 1937. 100 N465

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The soil was a Dutchess stony loam.

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342. COLLISON, R. C. Experiments in orchard soil management: fertilizers, mulches, and cover crops. N. Y. (State) Agr. Expt. Sta. Bul. 691, 37 p. Geneva, 1940. 100 N48
Data reported include effects of fertilizer uses on yields (p. 11-15).

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Report of experiments at the New York State Agricultural Experiment Station.

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349. HARLAN, J. D., and COLLISON, R. C. Experiments with commercial nitrogneous fertilizers on apple orchards. N. Y. (State) Agr. Expt. Sta. Bul. 623, 36 p. Geneva, 1933. 100 N48
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Results of experiments on a Sassafras silt loam soil, covering the years 1924-1930.

352. KNOTT, J. E. Fertilizing onions on muck soils. N. Y. (Cornell) Agr. Expt. Sta. Bul. 650, 20 p. Ithaca, 1936. 100 N48C

353. SAYRE, C. B. Effects of fertilizers and rotation on earliness and total yields of tomatoes. N. Y. (State) Agr. Expt. Sta. Bul. 619, 50 p. Geneva, 1933. 100 N48

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363. WORK, P. Tomato fertilizer experiments in Chatauqua County, New York. N. Y. (Cornell) Agr. Expt. Sta. Bul. 467, 24 p. Ithaca, 1928. 100 N48C

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North Carolina Experiment Station data.

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Results of studies over a period of years of effects of fertilizer treatments on yield and quality of peanuts and peanut hay, for both field-grown peanuts and those grown in concrete frames. Fertilizers of various compositions were used, and part of the treatments employed limestone and gypsum. The soils involved in the field studies were of various types; in the concrete frames studies, the soil used was a Norfolk sandy loam.

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Report of studies made at the Coastal Plain Station of the N. C. Department of Agriculture, from 1928 to 1931.

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Summary of eleven fertilizer experiments, combining other factor with fertilization.

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Report of experiments at the North Carolina Agricultural Experiment Station, on a Coxville fine sandy loam soil.

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Effects of different fertilizer ratios, of time of application, and of limestone. Experiments were made on Norfolk and Coxville fine sandy loam soils.

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Effects of nitrogen fertilizers added to a basic application of acid phosphate, showing yields per tree.

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INDEX

Item
Aandahl, A. R..........184
Acid soils..........345
Ackerman, R. A..........584
Adams, J. E..........20,504
Agawam soils..........308
Ahlgren, H. L..........586,591
Ala. Agr. Expt. Sta.29-41,43-4,47-51
Albert, D. W..........55
Alfalfa..56,86,92,140,173-4,176,183,191,197,251,282-3,299,309,312,334,336,522,526,532,543,568,573,576
Alford silt loam soil..........169
Alkaline soils..........56-7
Almonds..........84
Ammonia..........561
Ammonium nitrate..........5,420
Ammonium phosphate..........56
Anders, C. B..........268,289
Anderson, L. C..........339,343,357
Anderson, W. S..........269-71
Andrews, W. B..........272
Anthony, J. L..........273
Anthony, R. D..........432-3
Apples....66,98,141,157,227,229,343,345,349,357-8,396,539-41,566,570-1,580-1
Appleton, W. H..........50
Apricots..........84-5
Ariz. Agr. Expt. Sta......52-3,55-8
Ariz. Univ..........54
Ark. Agr. Expt. Sta..........59-76
Ashley, T. E..........277
Asparagus.....79,208,241,262,361,565
Ayers, W. E..........274

Bachtell, M. A..........395
Bacon, C. W..........230
Bahrt, G. M..........110
Bailey, R. Y..........29
Baker, C. E..........157
Baker, G. O..........140,563,575
Ballou, F. H..........396
Bannwart, W..........168
Barley...77,167,174,183,263,266,471,494,547,593
Barnes sandy loam soil..........494
Bartholdi, W. L..........456
Bartholomew, R. P..........59

Item
Batchelor, L. D..........82
Bateman, G. Q..........521
Baten, W. D..........254
Batten, E. T..........19,528
Bauer, F. C..........142-5,156
Baxter, A..........35
Beans.44,110,150,155,213,258,348,551
Beans, lima.....190,487,529,551,553
Beattie, J. H..........238,476-7
Beaumont, A. B..........243-5
Beaumont, J. H..........367
Bechdel, S. I..........434,443
Beckenbach, J. R..........105
Beckwith, C. S..........317
Bedford silt loam soil..........164
Beets..........150,155,456
Benne, E. J..........256
Bennett, R. E..........183
Berks shale soil..........535
Berks silt loam soil..........534
Bermudian silt loam soil..........327
Berrien sand soil..........253
Biggs Rice Field Station, Calif...80
Billings sandy loam soil..........525
Binkley, A. M..........89
Bird, J. J..........247
Black, C. A..........172,184
Blackberries..........578
Blackmon, G. H..........106
Bladen fine sandy loam soil...10,386
Bladen soils..........106
Blair, A. W..........318-19
Blank, L. M..........505
Blanton fine sand soil..........10,119
Blaser, R. E..........107-9,326
Bledsoe, R. P..........19,120-2,132
Blood, P. T..........307-16
Blueberries..........234,317,324
Bluegrass, Kentucky..........586,591
Bohstedt, G..........587
Bond, L. V..........576
Borax..........248
Borden, R. J..........134
Boron..........526,543
Boswell, V. R..........240-1,545
Bowers, J. L..........228
Bowling, J. D..........230
Boyce, J. H..........326
Brase, K. D..........358

Item
Breaux, S. J., Jr.................219
Breazeale, J. F....................56
Brennan fine sandy loam soil.....520
Bridgehampton sandy loam soil..473-4
Briggs, G.........................133
Brown, B. A......................91-6
Brown, B. E....1-6,223-5,325,530,561
Brown, D. E...................230,236
Brown, G. G.......................429
Brown, O...........................48
Brown, P. E...................176,183
Brown, limestone soil.............293
Brown loam soil...................294
Brunner, H........................168
Bryant, L. R.......................87
Buckner coarse sand soil......175,178
Buie, T. S................380,478-80
Burk, E. F........................418
Burkhart, L.......................372
Bushnell, J.................397-9,403
Byrom, M. H.......................517

Cabbage.....152,287,290,331-2,398-9,
402-3,437,456,470,550,594
Cahaba fine sandy loam soil......270
Calcareous soils..............118,334
Calcium...........................340
See also Lime.
Calcium chloride..................238
Calcium cyanamide.................539
Calif. Agr. Expt. Sta........77,82-4
Calif. Univ........................79
Campbell, J. A....................287
Campbell, J. C......................2,6
Campbell Soup Co.............129,322-4
Canfield silt loam soil...409-10,414
Capó, B. G......................451-2
Caribou silt loam soil.........223-4
Carolus, R. L.........340,529-31,560
Carr, J. M................13,123,131
Carr, R. B........................198
Carrington silt loam soil.........589
Carrots.......................150,155
Cashmere sandy loam soil..........570
Cathcart, C. S....................327
Cauliflower...................150,155
Cecil clay loam soil.....382,387,389
Cecil clay soil...................541
Cecil sandy clay loam soil..120,122,
124,489
Cecil sandy loam soil.............544
Cecil soils.......................485

Item
Celery..............105,118,400-1,459
Chandler, R. F., Jr...........229,341
Charlton fine sandy loam soil.....92
Chehalis soils....................574
Cherries......................87,358-9
Cheshire soil.....................243-4
Chester gravelly loam soil........327
Childs, W. H......................578-9
Chilton, S. J. P..................199
Chucka, J. A..................2,6,225
Clapp, A. L...................185,187
Clapp, S. C...................384,391
Clarke, W. S., Jr.................433
Clarksville silt loam soil.63,66,68,
69,76,550
Claypool, L. L................564,569
Clermont silt loam soil...........166
Clinton silt loam soil............176
Clore, W. J.......................565
Clover.....76,109,145,165,168,173-4,
191-3,194-5,197,251,266,292,
296,568
red.......140,293-4,382,384,387-9,
391,494
sweet........176,183,311,334,421-2
Coates, W. H......................307
Cochran, H. L.....................124
Cocke, R. P...................532,543
Coconuts..........................454
Coe, D. G..........................14
Coffee............................453
Coffman, E. B.....................434
Colby silt loam soil..............593
Coleman, R......................275-7
Collards..........................554
Collington loam soil..............327
Collington sandy loam soil........230
Collington sandy soil.............321
Collins, E. R.....19,368-9,372-3,375
Collison, R. C...........342-5,349,360
Colloidal phosphate.................2
Colo. State Col................87,89
Colwell, W. E.....................374
Comin, D........................400-3
Congaree sandy loam soil..........488
Conn. Agr. Expt. Sta. (New Haven).97
Conn. Agr. Expt. Sta. (Storrs)..91-6
Conrad, J. P.......................77
Cook, H. L....................158,162
Cook, R. L................248-54,260
Cooley, J. L., Jr.................278
Cooper, H. F....................135-6

Item
Cooper, H. P.....................481-2
Cooper, J. R.....................60-7
Copley, T. L.....................544
Cordner, H. B....................419
Cormany, C. E....................139
Corn........32,38,50,75-6,100,102-3,122,132,142-5,160-70,173,181,183,191-7,203,266,276,279,285,292-3,295-6,300,308,366,371,379,382-4,387-91,409,413-5,439-42,445,447-8,465,479,490-1,493-4,497,500,502,514,525,528,534,546-7,557,559,572,593-4
Corn, sweet...146-7,152-3,313,398-9,402-3
Cornelison, A. H.................135-6
Cornell, F. D., Jr...............583
Cornell Univ.....................340
Dept. Veg. crops.................356
Cotton..14,19-20,32,37-8,49,51,58-9,70-1,73-5,120-2,125,127-8,194,201-3,205,210-11,218,268,273-5,280-1,284-6,288-9,335,337,368,376-7,380-1,383,385,387,389-90,392,425,428,478-9,481,483-4,489,491,493,504-5,512-15,517,528
Cotton, R. H.....................446
Cowpeas.......388,424-5,479,499,514
Cox, T. R.................457,467-8
Coxville fine sandy loam soil..372-3
Coxville soils...................106
Crain, B. D......................496
Crandall, F. K........458-61,464,470
Creek, C. R......................246
Crockett clay loam soil..........505
Crop residues................163,173
Crop rotation. See Rotation of crops.
Crosby soils.....................171
Crowley silt loam soil..........68-9
Cucumbers............152,398-9,402-3
Cumings, G. A...1,7,110,325,354,368,483-4,553-4
Currants.........................339
Currin, R. E.....................479
Currin, R. E., Jr............383,390
Curtiss, C. F..................173-4
Cyanamide........................158

Daane, A.........................115
Damon, S. C..................463,466
Item
Darrow, G. M.....................370
Darso............................425
Das, U. K........................137
Davidson, F. E...................187
Davidson, L. G...................200
Davis, F. L.............201-3,210-11
Davis, J. F......................254
Davis, L. L.......................78
Deatrick, E. P...................582
Decatur soils.....................47
De Kalb loamy soil...............497
De Kalb soils....................447
Delano sandy loam soil............81
Del. Agr. Expt. Sta...........98-104
De Turk, E. E....................145
Dodd, D. R.......................404
Doehlert, C. A...............317,320
Dorsey, M. G.....................580
Douglas, W. A....................199
Duggar, J. F......................29
Duley, F. L..............186,189,292
Dunkirk loam soil................347
Dunkle, P. B.....................515
Dunklee, D. E....................526
Dunlavy, H.......................515
Dunmore silt loam soil...533,546,557
Dunmore soils....................548
Dutchess soils...................357
Dutchess stony loam soil.........339

Eheart, J. F.....................533
Elkton silt loam soil............554
Ellett, W. B.....................533
Elliott clay loam soil...........152
Elting, E. C.....................485
Emmert, E. M.....................190
Emory soils......................548
Englehorn, A. J..................183
Enlow, C. R......................434
Ephrata fine sand soil...........566
Ephrata fine sandy loam soil.....571
Erb, E. S........................434
Ervin, S. E......................165
Evans, M. W....................405-6
Everglades organic soils.....105,113
Evinger, E. L....................234

Fagan, F. N......................433
Farrell, M. A....................435
Farris, N. F.....................327
Ferris, E. B...................279-80
Ferrous sulfate..................120

Item
Fertilizers........................11
  acid-forming.................125,536
  application methods....56,116,128,156,186,190,195,197,237,255,258,444,520,594
  concentrated.......120,223,237,377
  costs and returns..........101,272
  experiments.9,22,23,25,34,103,146,301-2,411,417,430-1,451-2,495,523,577
    See also Test plots.
  high-analysis...............19,375
  neutral.........................536
  organic.....................158,559
  placement....1,3,6-7,16,19,53,110,254,266,271,325,354,356,368,376,422,444,483-4,508,517,551-4
  salt index......................376
  yield-depression effects.......26-8
  See also names of fertilizers and fertilizer elements.
Field crops...113,189,364-5,427,466,535,549
  See also names of crops.
Fifield, W. M.....................111
Finch, A. H........................52
Fink, D. S....................226,346
Fippin, E. O......................8-9
Fite, A. B......................331-3
Fitts, J. W.......................300
Fletcher, J. L....................212
Flax..............................260-1
Fla. Agr. Expt. Sta....105-9,111-15,118
Forman, L. W......................183
Fowler, E. D.......................10
Fraps, G. S.......................507
Frazier, W. A...................53,57
Frederick clay loam soil..........558
Freeman, J. F...................191-6
Fremont soils.....................360
Friend, W. H......................406
Fudge, J. F.......................507
Fuller, G. C......................434
Futral, J. G......................125

Gardner, F. D.....434,439-40,442,448
Gardner, R.........................87
Garman, W. H......................481
Garner, W. W......................230
Geary silt loam soil..............188

Item
Geise, F. W.......................231
Ga. Agr. Expt. Sta........120-8,132
Ga. Coastal Plain Expt. Sta......131
Gerdel, R. W......................415
Gila clay loam soil...............338
Gila sandy-loam soil..............331
Gilbert, B. E.....................462
Gillis, M. C......................147
Gish, P. A................534-5,547
Gladwin, F. E.....................347
Gloucester soil...................244
Goodwin, J. B......................87
Gore, U. R........................126
Gouaux, C. B......................204
Grain.........................300,503
  See also names of grain crops.
Granthan, C. M....................255
Grapefruit......................52,55
Grapes....65,259,347,360,408,473,511
Grasses...18,107,115,197,226,507,586
  See also Bluegrass; Hay crops.
Graul, E. J.......................587
Greaves, J. E......................11
Green, J..........................298
Green, J. R.......................298
Green manures.....39,127,318,461,499
Greenville sandy loam soil....67,130
Grenada silt loam soil............287
Griffiths, A. E....................54
Grizzard, A. L..................556-7
Gross, E. E.......................281
Guam. Agr. Expt. Sta..............133
Gypsum...........126,174,369,442,568

Haber, E. S.......................175
Hagerstown clay loam soil.........437
Hagerstown loam soil..............541
Hagerstown silt loam soil.......193,439-41,445,559
Hagerstown soils..................442
Hale, G. A......................127-8
Haley, D. E.......................435
Hall, E. E........................476
Hall, H. G........................164
Hall, R. A........................515
Hanna, G. C........................79
Hardenburg, E. V..................348
Hardman, G........................302
Harlan, J. D..................345,349
Harmer, P. M......................256
Harper, H. J................420-2,594

Item

Harrington, F. M. 297-8
Hartman, J. D. 159,350-1
Hartsells soils 47
Hartwell, B. L. 463-4
Hawaii. Agr. Expt. Sta. 137
Hawkins, A. 2,6,225,328
Hawkins, R. S. 58
Hawthorn, L. R. 508-10
Hay crops.15,36-7,102-3,143,161,163, 166-7,169-70,183,196,299,307-8, 310,366,439-42,445,447-8,465, 497,534,546-7,557,559,575,593
  See also Grasses; Pastures; and names of grasses and forage plants.
Hazlewood, B. P. 496
Hein, M. A. 443
Helms, H. B. 50
Hemp 172,184
Henderson, H. O. 582
Hendricks, J. W. 387-8
Henson, P. R. 282-3
Hepler, J. R. 303
Hesperia sandy loam soil 81
Hester, J. B. 129,321-4,536-8
Hillsdale sandy loam soil 266
Hinkle, D. A. 334-7
Hofmann, F. 539-41
Hoffman, I. C. 407
Hoffman, M. B. 350,579,581
Holben, F. J. 447
Holdaway, C. W. 558
Holland, C. S. 408
Hollar, V. E. 175
Hommel, R. F. 356
Honeoye silty clay loam soil 365
Hoosac soils 357
Hoover, C. D. 284
Horticultural crops 214
  See also Vegetables; and names of fruits and vegetables.
Houghland, G. V. C. ...3-4,7,232-3,542
Houston black clay soil 505
Huelsen, W. A. 146-7
Hull, W. W. 268,288-9
Hunter, J. H. 130
Hurst, L. A. 88,139,200
Hutcheson, T. B. ..528,535,543-4,546, 556-7
Hutton, J. G. 494-5

Item

Idaho. Agr. Expt. Sta. 138-41
Ill. Agr. Expt. Sta. 142-56
Ind. Agr. Expt. Sta. 157-9,162-71
Ingram, J. M. 159
Iowa. Agr. Expt. Sta. 172-84
Irvin, C. J. 439-42
Iverson, V. E. 297

Jackson, S. K. 381-2,389
Jacobson, H. G. M. 97
Jamison, F. S. 112
Jeffries, C. D. 447
Jenkins, J. M. 205-7
Jenkins, J. M., Jr. 486
Jenkins, P. M. 504
Jodidi, S. L. 545
Johnson, J. 588-90
Johnson, P. R. 513,515
Johnson, W. A. 39,47
Jones, J. H. 518
Jones, J. W. 78,80,207
Jordan, H. V. 504

Kafir 294,424
Kale 554
Kans. Agr. Expt. Sta. 185-9
Kapp, L. C. 68-9
Kelley, W. P. 12
Kelly, W. C. 355-6
Ky. Agr. Expt. Sta. 190-7
Killinger, G. B. 108
Kimbrough, W. D. 43,208-9,213-17
Kinman, C. F. 85
Kinney, E. J. 191,193,195-7
Kinnison, A. F. 55
Kipps, M. S. 546,559
Kirkland loam soil 426
Kirkland soils 424
Kitsap soils 574
Klingebiel, A. A. 176
Knoblauch, H. C. 465
Knott, J. E. 352
Knowlton, H. E. 580-1
Kohman, E. F. 323
Kramer, A. 234
Kramer, H. W. 267
Krantz, B. A. 162,371
Kraybill, H. R. 303
Krusekopf, H. H. 293-4
Kudzu 17,33
Kuykendall, R. 285
Kyzer, E. D. 479

Item

Lagassé, F. S..........98
LaMaster, J. P..........485
Lamb, C. A..........409-10
Land plaster. See Gypsum.
Langley, B. C..........513
Laprade, J. L..........131
Larson, C. A..........566
Larson, H. W. E..........138
Latimer, L. P..........304-5
Legumes..........18,29,143,164,250
Leon fine sand soil..........118
Lespedeza..........192
Lett, C..........169
Lettuce..........53-4,57,118,148,150,155,456,564
Lewis, E. P..........150,155
Lewis, R. D..........130
Lickdale soils..........578
Lime....15,30-2,60,75,91-2,97,100-1,103,107,109,113,132,154,163,173,183,187,189,193-4,197-8,238,284,312,314,319,326,379,384,389-91,394,417,421,442,499,501,528,535-8,556,559,582-3,585
Limestone....19,59,95,120,125-6,143,176,191,369,382-3,387-8,422,574
Lineberry, R. A..........20,372-3,375
Lintonia silt loam soil..........217
Lisbon clay loam soil..........152
Lloyd, J. W..........148-55
Long Island Veg. Res. Farm..........350
Lordstown silt loam..........355
Lorenz, O. A..........81
La. Agr. Expt. Sta..........199,201-21
Lovett, H. C..........202-3,210-11
Lovvorn, R. L..........295,394
Lufkin fine sandy loam soil..........514
Lunn, W. M..........13,236
Lush, R. H..........212
Lyons, E. S..........301

McCall, T. M..........267
McClelland, T. B..........453-4
McClendon, J. W..........30
McCollum, J. P..........152
McCool, M. M..........264
McCowan, J. D..........476-7
McCue, C. A..........99
McGeorge, W. T..........52-3,56-7
McGinty, R. A..........487
Mack, W. B..........436-8,446

Item

McKibben, R. R..........235
McLean, F. T..........471
McLean, J. G..........89
McMurtrey, J. E., Jr..........13,236
McNess, G. T..........515
Madison sandy loam soil..........124
Magistad, O. C..........594
Magnesia..........91,97
Magnesium..........35,124,530
Mahoney, C. H..........228
Maine. Agr. Expt. Sta..........223-7
Maney, T. J..........177
Manganese..........118
Mann, H. B..........19,20,368,375,377-9,381,383,386,390
Manure..........39,54,58,61,76,101,103,152,154-5,163,173,183,187,189,191,194,197,240,246,255,296,302,406,410,414,442,458-9,461-2,465,470,496,500,514,522,525,546,582
Mardin soils..........360
Marl soils..........111
Marshall, R. E..........257
Marshall silt loam soil..........179
Martin, W. H..........325
Martin, W. M..........298
Md. Agr. Expt. Sta..........229-31,234-7,239-42
Md. Univ..........228,232-3
Mass. Agr. Expt. Sta..........243-6
Maury silt loam soil..........195
Mayton, E. L..........30-1
Meacham, F. T..........382,389
Mehring, A. L..........483-4
Meldrum, H. R..........183
Merrimac fine sandy loam soil..........96
Merrimac silt loam soil..........466
Metzer, C. H..........90
Metzger, J. E..........237
Miami silt loam soil..........252,588
Miami soils..........171
Mich. Agr. Expt. Sta..........247-66
Mick, A. H..........255
Midgley, A. R..........526-7
Miles, S. R..........168,171
Millar, C. E..........248-50,252,255,258
Miller, H..........192
Miller, J. C..........209,213-17
Miller, L. B..........156
Miller, M. F..........292,295
Minges, P..........177

Item
Minn. Agr. Expt. Sta..............267
Minor elements.............19,89,107
Miss. Agr. Expt. Sta...268-81,284-91
Mississippi alluvial soil....211,213
Mo. Agr. Expt. Sta..............292-6
Mitchell, J. H....................485
Mont. Agr. Expt. Sta...........297-9
Mooers, C. A.................496-502
Moore, E. L.......................287
Moore, H. C.......................247
Moore, W. D.......................482
Morgan, M. F.......................97
Morgan, N. D......................178
Morris, H. D......................369
Morris, H. F..................515,517
Morris, O. M......................567
Morris, V. H......................415
Morrow Plots, Ill.................145
Mortimer, G. B..................591-2
Moser, F..........................160
Moses Fell Annex Farm, Bedford, Ind. 161
Moss, E. G.........................13
Muck soils.......256,352,379,397,400
Mulvey, R. R..................167,171
Munsell, R. I...................92,95
Murphy, H. F....................423-7
Musbach, F. L.....................593
Musgrave, G. W.....................14
Musgrave, R. B....................341
Muskingum River terrace loam soil... 403
Muskmelons.............63,153,175
Musser, A. M......................488
Myers, H. E.................185,187-8

Naftel, J. A.......................32
Natl. Fert. Assoc. Soil Impr. Com... 15
Natl. Joint Com. on Fertilizer Appl. 16
Nebr. Agr. Expt. Sta............300-1
Neel, L. R........................503
Neller, J. R...............113-15,568
Nelson, C. E......................573
Nelson, M........................70-6
Nelson, W. L..................374,376
Nettles, V. F.....................116
Neubauer method...................163
Nev. Agr. Expt. Sta...............302
N. H. Agr. Expt. Sta...........303-16
N. J. Agr. Expt. Sta...317-20,326-30

Item
N. Mex. Agr. Expt. Sta..........331-8
N. Y. (Cornell) Agr. Expt. Sta..341, 348,351-2,361,363-6
N. Y. (State) Agr. Expt. Sta....339, 342-7,349,354,357-60
Newton fine sandy loam soil......168
Nitrate of soda...127,160,180-2,295, 318,405-6,462,491,502-3,513, 581-2
Nitrates..........................367
Nitrogen..............228,275,471,505
Nitrogen fertilizers..4,12,20,28,37, 47,59,85,98,99,120, 124,128,134-7,167,179,190, 201,222,224,230,236,245, 249,278,321,328,346,349, 350,360,377,381,393,396, 404,456-7,489,520,531,533-4, 544,560,565,570,578-9
Noble, E. G........................86
Noll, C. F...............434,439-43
Norfolk coarse sand soil.........393
Norfolk fine sandy loam soil....373, 493,555
Norfolk sand soil.................481
Norfolk sandy loam soil...31,48,123, 232-3,368-9,383,390,477, 493,532,554
Norfolk soils...........47,106,231
Norman, A. G......................179
N. C. Agr. Expt. Sta....367-9,371-3, 375-7,379-94
N. C. Dept. of Agr................370
Nygard, I. J......................298

Oakes, J. Y.......................218
Oats........37,76,103,142-5,163,165, 167-8,173-4,180,183,203, 263,275,277,285,292, 296,307,366,383,409,425,439-42, 445,447-8,471,479-80,491, 494,497,514,563,594
Obenshain, S. S.................547-8
O'Brien, R. E...................548-9
Odland, T. E....456-8,461,465-70,582
Ogden, W. B....................588-90
Ohio. Agr. Expt. Sta.........395-417
Ohlrogge, A. J....................162
O'Kelly, J. F...................288-9
Okla. Agr. Expt. Sta..........418-28
Oliver, R. C......................554
Olivier silt loam soil............201

Item
Olson, L. C.........................132
O'Neal, A. N........................219
Onions..............152,333,352,508-10
Onslow fine sandy loam soil......528
Orangeburg sandy loam soil...477,479
Orangeburg fine sandy loam soil..270
Orangeburg soils...................106
Oranges.............................82
Orchards...........306,342,432-3,567
See also names of fruits.
Oreg. Agr. Expt. Sta.........429-31
Overholser, E. L..............569-71
Overley, F. L..................570-1
Owen, F. V.....................223-4

Paden, W. R........................489
Palouse soils......................568
Parker, E. R........................82
Parker, F. W.......................594
Parker, M. M...............537,550-5
Partridge, W. L....................259
Pastures......15,30-1,93-5,104,108,
117,198,206,212,215-16,
243-4,246,265,315-16,
326-7,346,394,404,416,434,
443,469,485,518,521,527,
533,548,556,558,575,
582-5,587,592
See also Grasses; Hay crops.
Paxton loam soil.............307,313
Peaches.........60,64,67,84-5,99,229,
367,393,492
Peanuts...............126,369,390,528
Pears...........................84,569
Peas...140,150,155,228,254,287,354,
545,551
Peat...............................461
Peat soils..........................79
Pecans...................10,21,106,130
Pember, F. R..................462,471
Pendleton, R. A.............83,180-2
Pa. Agr. Expt. Sta............432-48
Peppers.......................150,155
Percival, G. P..........308-12,315-16
Perkins, W. R....................556-7
Philippine Islands. Dept. Agr. and
Nat. Resources.....................449
Phillips, C. E................102,104
Phillips, T. G........307,309-11,316

Item
Phosphate fertilizers...18,24,59,85,
...109,113,120,140,159,173,
183,190,192,298,334,336,
...338,350,396,422,439-41,445,
...457,467,492,497,501,507,
...511,522,531,544,548-9,583
Phosphorus.......48,228,275,303,471,505
ammoniated.........................539
Pickett, B. S......................177
Pierre, W. H.....................584-5
Pimientos..........................124
Pineapples.........................455
Pitner, J..........................273
Pittman, D. W................11,522-3
Plainfield fine sand soil.......170
Plummer soils......................123
Pohlman G. G.......................583
Pollinger, W. E..................297-8
Porter's loam soil..........384,391
Portsmouth loamy fine sand soil..119
Post, A. H.........................299
Potash..............120,124-5,158,527
Potash fertilizers..218,229,236,457,
468,476-7,481,492,544
Potassium........183,228,340,471,486
Potassium chloride.................341
Potassium metaphosphate............341
Potatoes...1-7,42-3,45-6,48,62-3,81,
89-91,96,111,119,138,140,
150,155,185,223-5,232,
237,247,255,267,291,297,
307,325,355-6,362,375,
386,391,397,418-19,429,
437,457,482,488,497,528,
536,538,542,561,572,594
Potter, G. F.......................306
Potts, H. C........................428
Powers, W. L.....................430-1
Prairie silt loam soil.............147
Pratt, A. D........................558
Prince, F. S...........307-16,318-19
Proebsting, E. L..................84-5
Prunes.........................84-5,141
Puerto Rico. Agr. Expt. Sta....453-4
Puget soils........................574
Pulaski fine sandy loam soil......73
Putnam silt loam soil.............296

Rahn, E. M.....................438,444
Ramie..............................114

Item
Randolph, J. W....................271
Randolph, U. A....................511
Rankin, W. H...........384,387-8,391
Rapp, C. W.........................62
Raspberries........257,472,474-5,579
Rea, H. E.........................512
Rea, J. L., Jr....................379
Red soils.........................211
Redit, W. H.....................3,554
Reed, J. F........................220
Reid, F. R..........................4
Reid, J. J........................435
Reitz, L. P.......................188
Reynolds, E. B............512-16,518
Rhoad, A. O.......................198
Rhoades, H. F.....................301
R. I. Agr. Expt. Sta.........456-75
Rice.......68-9,72,75,78,80,199,207,220,516,519
Richards, D. E....................430
Richards, G.......................592
Richardson, E. C................17,33
Richer, A. C..................445,447
Richland silt loam soil............59
Ritchey, G. E.................108,117
Ritzville soils...................568
Robbins, C........................166
Robbins, W. W......................83
Roberts, G......................191-7
Robinson, B. B..................260-1
Robinson, R. R...............18,584-5
Rodrigo, P. A.....................450
Rogers, W. B..............480,490-1
Roses.............................358
Rost, C. O........................267
Rotation of crops.....29,32,76,122,140,153,164-6,168-71,173,189,191,193,195,225,293-4,296,307,353,382-4,387-91,409,424-5,437,465-6,479,499,514,557,559
Rupel, I. W.......................587
Ruprecht, R. W...............10,106,118
Russel, J. C......................301
Ruston fine sandy loam soil......270
Ruston sandy loam soil.........60,63
Rutabagas.........................465
Ruzek, C. V.......................431
Rye.......................167,174,318
Ryker, T. C.......................199

Item
Sachs, W. H.................74,483-4
Sagemoor fine sandy loam soil....572
Sagemoor soils....................568
Salt, common......................256
Salter, R. W...........409-10,412-14
Sassafras fine sandy loam soil...555
Sassafras loam soil..239,318-19,325
Sassafras sandy loam soil....554,562
Sassafras sandy soil..............321
Sassafras silt loam soil..100-3,351,361-2
Sassafras soils...................231
Sax, K............................227
Saybrook silt loam soil...........152
Sayre, C. B.....................353-4
Scarseth, G. D...........34,158,162
Schermerhorn, L. G.............329-30
Schmidt, E. H.....................237
Schoenleber, L. G...............3,554
Schoppelle, N. A..................455
Schrader, A. L................234,242
Schultz, H. K.....................138
Schuster, G. L..................100-4
Scott, L. E.......................492
Scripture, P. N...................312
Seaton, H. L......................262
Serviss, G. H..............58,110,484
Sharp, A. L.......................110
Shaw, R. S........................469
Shelby loam soil..................176
Shelton, F. A.....................324
Sherbakoff, C. D..................496
Singleton, H. P.................572-3
Skaggs, S. R......................443
Skinner, J. J.....10,19-21,110,118,122,125,375-8,386,483,493
Skuderna, A. W.................88,139
Slate, W. L........................93
Slater, R. M......................395
Smith, F. B.......................109
Smith, G. E.......................296
Smith, H. P.......................517
Smith, L. H...................142,145
Smith, O........................355-6
Smith, R. S.......................142
Snell, M. E.......................245
Sodium............................431
Sodium salts......................305
Soil amendments....................76

Item

Sommer, A. L........................35
S. C. Agr. Expt. Sta...476-82,485-92
S. Dak. Agr. Expt. Sta.........494-5
Soybeans....32,75,102-3,142,145,161, 163-4,169-70,179,191,193-4, 196-7,292-4,296,374,384, 391,528
Sparks, W. C........................89
Spillman, W. J......................22
Spinach.....150,155,248,420,456,554, 560,574
Sprague, H. B...................326-8
Stacy, S. V...................121,380
Stair, E. C........................159
Stallings, J. H....................119
Stanberry, C. O....................573
Stansel, R. H.................515,518
Staten, G.........................337-8
Steinbauer, C. E...................238
Stene, A. E.......................472-5
Stevenson, W. H....................183
Stokes, W. E......................107-8
Stout, G. J........................438
Strawberries...61,177,242,304-5,344, 350,370,372-3,375,450
Street, O. E.......................435
Stringfield, G. H..................414
Strong, W. O.......................542
Strubinger, L. H...................154
Sturgis, M. B......................220
Sturkie, D. G...................34,36
Sugar beets.......83,88,139,248,264, 299,300,524-5
Sugarcane...134-7,200,204,219,221-2, 449
Sulfate of ammonia...........432,581
Sulfur..................113,235,568
Superphosphate.....2,95,188,306,338, 380,582
  ammoniated........................49
Sutton soils.......................308
Sweet corn. See Corn, sweet.
Sweetpotatoes.....63,175,178,217,231, 233,238,269,270-1,330,375, 377-8,476-7,496,561
Sykora, J..........................594

Taggart, M. G......................221
Tama silt loam soil................176
Tennant, J. L......................466
Tenn. Agr. Expt. Sta.........496-503
Terry fine sandy loam soil..........87

Item

Test plots..........................8-9
  See also Fertilizers, experiments.
Tex. Agr. Expt. Sta..........505-19
Thomas, R. P.......................239
Thomas, W..........................446
Thompson, H. C.....................361
Thorne, D. W.......................523
Thornton, S. F.....................163
Throckmorton, R. I.................189
Tidmore, J. W.....................37-8
Tiedjens, V. A..................329-30
Tifton fine sandy loam soil.........131
Tifton sandy loam soil.............123
Timmons, F. L......................185
Timothy......160,165,168,295-6,309, 328,405-6
Tobacco....13,123,131,191,193-5,197, 230,236,245,395,435,544,588-90
Tobey, E. R........................224
Toevs, J. L........................140
Tolman, B..........................524
Tomatoes......63,118,129,148-50,153, 155,159,190,239,253,278, 287,303,321-4,340,351, 353,363,398-9,402-3,407,436-8, 446,460,462,506,555
Toxaway loam soil..................391
Trace elements. See Minor elements.
Tremblay, F. T.....................574
Trenton limestone soil.............197
Truck crops.........40-1,118,151,552
  See also Vegetables; and names of crops.
Truog, E...........................594
Tucker, L. R.......................141
Tukey, H. B.......................357-9
Tung trees.........................209
Tyson, J..........................263-5

U. S. Arlington Expt. Farm.........545
U. S. Dept. of Agr..7,13,20-2,78,86, 88,110,139,193,378,476, 483-4,493,524
  Bur. of Chem. and soils.........4,10
  Bur. of Plant Indus...230,477,505, 542
  Soil Conserv. Serv................33
U. S. Horticultural Sta., Beltsville, Md..........................238
U. S. Tenn. Valley Coordinating Com................................23

Item

U. S. Yuma Field Sta., Bard, Calif.. 86
Utah. Agr. Expt. Sta.......521-3,525

Vaile, J. E....................61,65
Vandecaveye, S. C..........563,574-6
Veatch, J. O......................259
Vegetables.....39,47,97,113,116,133, 154-5,240,256,319,329, 444,458,461,466,530,537
See also Truck crops; and names of vegetables.
Vt. Agr. Expt. Sta..............526-7
Vessel, A. J......................172
Vetch.............32,284,383,393,563
Victoria clay loam soil..........506
Va. Agr. Expt. Sta.528,532-5,539-41, 543-4,546-9,556-9
Va. Truck Expt. Sta....529-31,537-8, 542,550-5,560-2
Volk, G. H........................109
Volk, G. W.........................24
Volusia silt loam soil.......364,366
Volusia soils.....................448

Wachter, H. L.....................395
Waldo, G. F.......................370
Walker, G. P...................164-70
Wallace, R. W.....................482
Ware, J. O.........................73
Ware, L. M...............39-48,290-1
Warner, J. D.........108,478-80,490
Warran, C.........................170
Wash. Agr. Expt. Sta..........563-77
Watenpaugh, H. N..................338
Watermelons...............63,112,175
Watts, V. M........................63
Wear, J. I.........................35
Weaver, B. L......................149
Wehadkee soils....................485
Weidemann, A. G.............261,266
Weiser, V. L......................527
Wellington, R.....................360
Welton, F. A...................415-16
Wentworth, S. W...................304
Wessels, P. H..............351,361-2
W. Va. Agr. Expt. Sta.....578-83,585

Item

Westmoreland soils................448
Westover, H. L..............86,282-3
Wharton, M. F......................57
Wheat......76-7,102-3,122,140,142-4, 156,160-1,163-7,169-70,173, 182-3,186,188,191-7,249,266, 292-6,299,318,382,384,387-9,391, 409-10,412,423-4,426,439-42, 445,447-8,471,480,494,499, 525,534,546-7,557,559,572
Wheeting, L. C..............572,577
White, J. W............434,445,447-8
White, T. H.....................240-1
Whitehouse, W. E..................242
White-Stevens, R. H...............350
Whittaker, C. W...................376
Wiancko, A. T..................164-71
Wiggans, C. B...................64,67
Willcox, O. W...............25-8,222
Williams, C. B.............20,377-92
Williams, C. F...............367,393
Williams, P. S...............434,443
Williamson, J. T.........29,37,49-51
Willis, W. P., Jr.................298
Wilsie, C. P......................184
Wilson, C. V......................582
Wilson, W. F......................209
Wis. Agr. Expt. Sta...........586-94
Wolfe, H. S.......................111
Wolfe, T. K.......................559
Woltz, W. G..................531,560
Woodhouse, W. W., Jr..............394
Woodstown gravelly loam soil.....326
Woodstown sandy loam soil........551
Woodstown silt loam soil.........551
Wooster silt loam soil...........416
Work, P......................351,363
Worthen, E. L..................364-6
Worthington loam soil............307
Wyche, R. H..................516,519
Wynd, F. L........................520

Yates, H...........................48
Yoder, R. E.......................417
Yolo gravelly loam soil............85

Zimmerley, H. H.........3,537,561-2
Zobell, I. D......................525

5/17